COMBI-150 TIME LOG

SERIAL NO.- C-1450112

*TOTALS ARE FROM BREAK-DOWN

DATE	START TIME	W.M. COUNTER	STOP TIME	W.M. COUNTER	REASON FOR STOP	TOTALS TIME	TOTALS PLEAYS
(CHECK OUT) 1/14/71	1:15	2460	4:45	2509	END OF DAY	3:30	49
1/15	8:30	2509	4:45	2549	END OF DAY	8:15	40
1/18	9:00	25:49	11:00	2570	END OF TEST	2:00	21
					TOTALS	13:45	110
1/22	2:30	4276	4:45	4316	END OF DAY	2:15	40
1/25	8:30	4316	4:45	4442	END OF DAY	8:15	126
1/26	8:00	4442	3:00	4593	END OF TEST	7:00	151
						17:30	317

C-1450112

ADDITIONAL CHECK-OUT ADD TO PROCEDURE QA-01 & QA-02

1.	Check casters before moving to QA.	✓
2.	Check coin mechanism reject lever.	
3.	Check output transformer wire.	✓
4.	Check lamp wires on projector for interference of latch-up.	✓
5.	Check for spring clip on actuater arm.	✓
6.	Idler rollers set properly and secured tightly.	✓
7.	Check plastic caps on idler gears, push nut tight.	✓
8.	Index blocks marked properly.	✓
9.	Check basket for front side play only.	✓
10.	Spacer bar nuts tight.	✓
11.	Memory panel wiped clean.	✓
12.	Machines free of paint spatterings.	✓
13.	Check basket microswitch.	✓
14.	Projector automatically rejects.	✓
15.	Picture centered.	✓
16.	No double scan of delivery systems on final selection.	✓
17.	Check all screws on selector panel.	✓

TEST PROCEDURE Mechanical Check-Out

QUALITY CONTROL ENGINEERING Serial No. C-1450112

SPECS, DWGS, ETC: _____

EQUIPMENT: A _____ B _____ C _____

If any defects are found during this mechanical check-out, corrections will be made before signing off this check-out procedure. Mechanical check-out will be done before the final operational check-out.

Performed by A.W.

Date 3/4/71

Passed _____

Rejected Date _____

QA Check _____

Date _____

Passed _____

Rejected Date _____

1. Cabinet Outside

a. Check alignment of hood. Use mounting hardware front and back. ✓

b. Door closing freely. ✓

c. Door locks upper and lower to operate freely with good securing. ✓

d. Outer and inner door molding to be secured tightly, screw heads to be free from burrs, all molding free from scratches and nicks.. ✓

e. Coin cup secured tightly, speaker grill secured tightly. ✓

REV STATUS OF SHEETS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

NATIONAL COMPANY

PREPARED BY: W. Lewis 11-6-68 DATE

APPROVED BY: W. Lewis 11-6-68 DATE

CHARACTERISTICS MEASURED:

K G Barker 12/5/68

COMPONENT/ASSEMBLY: Combi 150 DASH NO.

PROCEDURE NUMBER QA-01 REV A

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2. Cabinet Door Inside

a. Check title card holders for good securing with latching springs. ✓

b. Records only cable routing to be free from title card holder operations. ✓

c. Check for strip on side of card holders. ✓

d. Check coin mechanism lead in chute, chute to coin cup and chute to cash box for correct alignment. ___

e. Hold latch bar solenoid in, press X button. Release latch bar. X button should come out. Repeat 10 times. ✓

f. Check coin mechanism with quarters and power off. Quarters should return to reject cup (use four quarters for this test). ___

g. Check all window clamps to be tight and fully secured. ✓

h. Cash box door and lock operate freely, check cash tag in cash box. ✓

i. Check all cabling on front door for routing and securing. ✓

j. Check for air filter and that it is secured in position. ✓

3. Record Player

a. Check record player motor end play. ✓

b. Check record player needles to be sure they are in good working order and tone arm for free movement. ✓

c. Check selection solenoid bank for positioning and free movement. ✓

d. Check positioning contact block. ✓

e. Check WW motor contact block for correct positioning of contacts. ✓

f. Check WW motor pulleys and belts to be sure they are secure and tight. ✓

g. Check for P.Q.R. sticker. ✓

h. Check all plugs and connectors to and from record player for tightness and cabling positioning. ✓

i. Check for wing nuts and clips on record player. ✓

j. Check record player table to be sure it is secured to base. ✓

k. Check to see if left hand cover plate is on and secured. ✓

4. Delivery System

a. Check for free movement of basket, bottom to top, top to bottom. ✓

b. Check timing of clutch gears, check for spacer bar to be secured. ✓

c. Check to see that Delivery System is fully secured in place. ✓

d. Check all basket positions for free cartridge movement. ✓

e. Check projector to be secured to base with all four screws. ✓

f. Check to see that all drive belts are in their proper place (base and projector). ✓

g. Check lens and lamp, lamp cover should be secured. ✓

h. Check blower motor for free travel and locks into position securely. ✓

i. Check that all plugs and connectors are secured tightly and cable routing is correct. ✓

5. Credit Unit, Output Transformer

a. Check to see units are tightly secured. ✓

b. Check cable connector and plug for proper setting and correct place. ✓

6. Remote Control Panel

a. Remote control box is secured and all connectors are plugged in. ✓

b. Records only SW is secured and label on back of panel. ✓

c. Outside reject button secured correctly. ✓

7. Amplifiers and Pre-amps

a. Amplifiers and Pre-amps are secured tightly in their mounting position. ✓

b. All plugs, wires, and connectors are in correct position secured tightly. ✓

8. Power Supply

a. Check all relay for correct rating and placement in their sockets. ✓

b. Check all plugs and connectors for correct placement and setting. ✓

c. Check all fuses for correct rating and placement. ✓

d. Make sure power supply is secured in position. ✓

C-1450112

INSPECTION/TEST PLAN

QUALITY CONTROL ENGINEERING

SPECS, DWGS, ETC: OPERATIONAL CHECK-OUT

EQUIPMENT: Combi 150

1. Before turning equipment on, check the following items:

   a. Check all fuses to be secure and correct rating. ✓

   b. All relays are secure and in correct position. ✓

   c. Check all connectors and plugs to be tightly secured. ✓

   d. Set volume control to position four. Balance control to center, tone and treble control to center position. ✓

   e. Check basket for full load of film and that they are in their proper position. Place records in record player and test pattern film in XA position. ✓

2. Starting Equipment

   a. Turn power SW to the on position. Cabinet light should come on. ✓

   b. Basket should return to the bottom position if not already there. ✓

   c. Record player head should return to the right side if not already there. ✓

   d. Two upper cabinet lights should be on full brightness. ✓

   e. Amplifier lights on no hum coming from speakers or control unit power transformer. ✓

3. Insert Two Quarter Coins

   a. The one film, one album, and two singles light should come on (top), singles only light must be out (bottom). ✓

   b. Latch bar solenoid should be activated. ✓

REV STATUS																
OF SHEETS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

PREPARED BY: DATE

APPROVED BY: DATE

USED ON CONTRACT, AREA, PROCESS, PART, ETC.

NATIONAL COMPANY

PLAN FOR: Combi 150

PLAN NUMBER AQ-02 REV A

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c. Coin counter should move ahead two counts and quarter fall into cash box. ✓

d. Make selection in the following order: A1, Xa, A2. Selection lights should return to the off position and all selections should have been made. Check to see if all selections were made. ✓

e. Latch Bar to be returned to the off position. ✓

4. Checking Selected Plays

a. Machine should now be playing XA position with test pattern showing on screen. Check for correct image positioning and centering on screen. ✓

b. Check for good focus in all four corners and center (small target in the center of all five bull's-eyes should be clear). ✓

c. Turn record only SW to record only. ✓

C1 Records only light should come on (front panel). ✓

C2 Record player should pick-up A1 position on record player. ✓

C3 Check pick-up of lead in grove by tone arm, when tone arm is held all the way back, it should not be able to miss lead in grove. ✓

C4 Check trail off grove, tone arm should reject half way down trail off grove. Repeat this operation on A2. ✓

C5 Put full credit on machine by pushing coin by pass SW and try to make film selection with records only light on. Machine should not be able to make film selection. No select R7 and R8 all credit light should go out. ✓

C6 Let record player pick up R7 or R8. Now set volume control to position 5. Check both sound channels with balance control by turning control to the right and then to the left. You should not have any loss of sound on either channel. ✓

C7 Now press center reject button above balance control at rear of cabinet. Record should reject. ✓

C8 Let record player pick-up next record and repeat above operation, but use outside reject button at rear of cabinet. Record should reject. ✓

d. Return records only SW to films and records position. Machine will complete cycling and basket will return to at rest position. ✓

5. Checking Delivery System and Projector Operation

a. Deposit four more quarters and make the following selections: X8, X7, X6, X5. ✓

b. On X8, X7, X6 check for each selection to come up in the order in which it was selected. Make sure each cartridge is setting in the projector correctly and that each cartridge rejects automatically by the reject notch. ✓

c. Now let X5 come up and reject with button projector base. ✓

NOTE: Check-off the following for performance quality:

6. Performance Check-off

a. Picture has good focus quality. ✓

b. Sound on film clear and steady volume level ✓

c. Record sound clear and steady volume level ✓

d. Correct credit count when depositing quarters ✓

e. No problem with selection buttons when making selection from selection panel ✓

If any defects are found during this operational check-out, corrections will be made before signing off this check-out procedure. Mechanical check-out will be done before the final operational check-out.

Performed by A.W. QA Check_____

Date 3/4/71 Date_____

Passed_____ Passed_____

Rejected Date_____ Rejected Date_____